

Standard Lime & Stone Quarry
Kilns No. 1, 2, 3
County Route 27
Millville
Jefferson County
West Virginia

HAER No. WV-49-C

HAER
WVA
19-MILLY,
1C-

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD
MID-ATLANTIC REGION, NATIONAL PARK SERVICE
DEPARTMENT OF THE INTERIOR
PHILADELPHIA, PENNSYLVANIA 19106

HISTORIC AMERICAN ENGINEERING RECORD

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Location: Standard Lime & Stone Quarry, eastern edge of plant area, County Route 27, Millville, Jefferson County, West Virginia.

UTM: 18.4353620.260170
Quad: Charles Town, West Virginia

Significance: The remains of Kilns No. 1, 2, and 3 are an example of one type of furnace (and structural supports) used during the firing phases of dolomite processing.

Description: The three kilns were "rotary" kilns nine feet in diameter and 175 feet long housed in a hollow clay tile building (now a ruin). Each kiln was composed of a brick-lined iron cylinder that was slightly inclined. The body was supported on a set of rollers at two points and, while operating, revolved very slowly on the rollers, rotating and heating the contents evenly. The kilns were fueled by coal passed through a Jeffrey Coal Crusher at the south end of the Raymond Mill building.

History: The manufacturer of Kilns No. 1, 2, and 3 is not known. They were installed by the Standard Lime & Stone Company c. 1928 for the production of dolomite-derived refractory materials and were removed after Martin-Marietta Corporation ceased operations at the quarry site. Crushed dolomite and iron passed through a Raymond Mill that finely ground the stone mixture. From the mill, the mixture underwent a calcining step, whereby the pulverized stone entered one of three kilns and was heated to a temperature of 2700 degrees Fahrenheit. The result of the firing process was a black granular stone which, once exiting the kiln, was placed in a cooling bin. The stone was then sprayed with a heavy black oil called "COBLAX" or coal tar and shipped to steel mills to be used as furnace lining.

Sources: Grimsley, G.P. and White, I.C. West Virginia Geological Survey, Jefferson, Berkeley, and Morgan Counties. Wheeling: Wheeling News Litho. Co., 1916.

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Historian:

Jill A. Chappel
Historic Preservation Specialist
Greenhorne & O'Mara, Inc.
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